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HOMELAND SECURITY

Observations on DHS and FEMA Efforts to Prepare for and Respond to Major and Catastrophic Disasters and Address Related Recommendations and Legislation

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Mr. Chairman and Members of the Subcommittee:

Thank you for the opportunity to discuss issues associated with the Federal Emergency Management Agency's (FEMA) efforts to address the shortcomings of the preparation and response to Hurricane Katrina and enhance its capabilities for responding to major disasters, including hurricanes. The 2007 hurricane season begins in just a few weeks. Hurricane Katrina severely tested disaster management at the federal, state, and local levels and revealed weaknesses in the basic elements of preparing for, responding, to and recovering from any catastrophic disaster. The goal of disaster preparedness and response is easy to state but difficult to achieve and can be stated as follows:

To prevent where possible, prepare for, mitigate, and respond to disasters of any size or cause with well-planned, well-coordinated, and effective actions that minimize the loss of life and property and set the stage for a quick recovery.

Achieving this goal for major disasters, and catastrophic disasters in particular, is difficult because success requires effective pre- and post-disaster coordination and cooperation among different levels of government, nongovernmental organizations, and the private sector. Individuals can also contribute to success through such things as knowing evacuation routes, complying with evacuation orders, and having a family and individual disaster preparation plan and supplies.

As the Comptroller General testified in February 2007 on DHS's high-risk status and specifically disaster preparedness and response, DHS must overcome continuing challenges, including those related to clearly defining leadership roles and responsibilities, developing necessary disaster response capabilities, and establishing accountability systems to provide effective services while protecting against waste, fraud, and abuse.¹ These issues are enormously complex and challenging for all levels of government. It is important to view preparedness for and response to major disasters as a national system with linked responsibilities and capabilities. This is because effective preparedness for and response to major disasters requires the coordinated planning and actions of multiple actors from multiple first responder disciplines, jurisdictions, and levels of

¹GAO, *Homeland Security: Management and Programmatic Challenges Facing the Department of Homeland Security*, [GAO-07-452T](#) (Washington, D.C.: Feb. 7, 2007).

government as well as nongovernmental entities. Parochialism must be put aside and cooperation must prevail before and after an emergency event. The experience of Hurricane Katrina illustrated why it is important to tackle these difficult issues.

My testimony today (1) summarizes our key findings regarding leadership, response capabilities, and accountability controls and the efforts made by DHS and FEMA in their implementation of the Post-Katrina Reform Act² and other recommendations made in the aftermath of Hurricane Katrina, and (2) highlights several disaster management issues for continued congressional attention. My comments today are based on our body of work on disaster and emergency management including more than 30 reports on the aftermath of Hurricane Katrina, our review of recent emergency management reform legislative changes, and materials and statements provided by FEMA. We conducted our audit work in accordance with generally accepted government auditing standards.

Summary

Our analysis of the preparation for and response to Hurricane Katrina showed the need for (1) clearly defined and understood leadership roles and responsibilities; (2) development of the necessary disaster capabilities; and (3) accountability systems that effectively balance the need for fast and flexible response against the need to prevent waste, fraud, and abuse.

A key issue in the response to Hurricane Katrina was the lack of clearly understood roles and responsibilities. One aspect of this issue that continues to be a subject of discussion is the roles and responsibilities of the Federal Coordinating Officer (FCO), who has the authority to make mission assignments to federal agencies for response and recovery, and the Principal Federal Official (PFO), whose role was to provide situational awareness to the Secretary of Homeland Security. DHS has designated a FCO for each region that includes states at risks of hurricanes and a supporting FCO for each of these states. It has also designated a PFO for each of three regions—the Gulf Coast, the Northeast Region, and the Mid-Atlantic Region—plus a separate PFO for the state of Florida. It is critically important that the authorities, roles, and responsibilities of these

² The Post-Katrina Emergency Management Reform Act of 2006 was enacted as Title VI of the Department of Homeland Security Appropriations Act, 2007, Pub. L. No. 109-295, 120 Stat. 1355, 1394 (2006).

designated FCOs and PFOs be clear and clearly understood by all. There is still some question among state and local first responders about the need for both positions and how they will work together in disaster response. One potential benefit of naming the FCOs and PFOs in advance is that they have an opportunity meet and discuss expectations, roles and responsibilities with state, local, and nongovernmental officials prior to an actual disaster, possibly setting the groundwork for improved coordination and communication in an actual disaster.

As we have previously reported, developing the ability to prepare for, respond to and recover from catastrophic disasters requires an overall national preparedness effort that is designed to integrate and define what needs to be done, where, and by whom (roles and responsibilities); how it should be done; and how well it should be done—that is, according to what standards. The principal national documents designed to address each of these are, respectively, the National Response Plan (NRP), the National Incident Management System (NIMS), and the National Preparedness Goal (NPG). The NRP, NIMS and the NPG are undergoing extensive review and revision by Federal, State, and local government officials, tribal authorities, non-governmental and private sector officials. This effort is intended to assess the effectiveness of the doctrine embodied in these documents, identify modifications and improvements, and reissue the documents. The review for the NRP, for example, was initially scheduled for release in June 2007. However, in April 2007 DHS officials notified stakeholders that some important issues were more complex and require national-level policy decisions, and stated that additional time was needed to complete a comprehensive draft. DHS noted that the underlying operational principles of the NRP remain intact and the current document, as revised in May 2006, still applies. FEMA officials have told us that the final version of the NPG and its corresponding documents are currently receiving final reviews by the White House and will be due out shortly. We are concerned, however, that if the revisions are not completed prior to the beginning of the 2007 hurricane season, it is unlikely that the changes resulting from these revisions could be effectively implemented for the 2007 hurricane season.

In addition to roles and responsibilities, the nation's experience with Hurricanes Katrina and Rita reinforced some questions about the adequacy of the nation's disaster response capabilities in the context of a catastrophic disaster—particularly in the areas of (1) situational assessment and awareness, (2) emergency communications, (3) evacuations, (4) search and rescue, (5) logistics, and (6) mass care and sheltering. Overall, capabilities are built upon the appropriate combination

of people, skills, processes, and assets. Ensuring that needed capabilities are available requires effective planning and coordination in conjunction with training and exercises in which the capabilities are realistically tested and problems identified and subsequently addressed in partnership with other federal, state, and local stakeholders. In various meetings with us and in congressional testimonies, FEMA has described a number of initiatives to address identified deficiencies in each of these areas and progress is being made on these multi-year efforts. However, none of these initiatives appear to have been tested on a scale that reasonably simulates the conditions and demand they would face following a major or catastrophic disaster. Thus, it is difficult to assess the probable results of these initiatives in improving response to a major or catastrophic disaster, such as a category 4 or 5 hurricane.³ Additional information on FEMA's efforts can be found in Appendix I.

The National Guard has traditionally been an important component of response to major disasters. States and governors rely on their National Guard personnel and equipment for disaster response, and National Guard personnel are frequently deployed to disaster areas, including those outside their home states. However, as we reported in January 2007, the types and quantities of equipment the National Guard needs to respond to large-scale disasters have not been fully identified because the multiple federal and state agencies that would have roles in responding to such events have not completed and integrated their plans.

With regard to balancing speed and flexibility with accountability, FEMA has stated it can register up to 200,000 applicants per day for individual assistance while including safeguards for preventing fraudulent and duplicate applications. The inability to reliably and efficiently identify fraudulent and duplicate applications was a major problem following Katrina that resulted in millions of dollars in improper payments. FEMA has also taken actions to revise its debris removal and contracting policies and to increase the use of advanced contracting for goods and services. Again, we have no basis to determine the effectiveness of these systems as they have yet to be tested on a large scale basis.

³Section 602 of the Post-Katrina Reform Act defines "catastrophic incident" as any natural disaster, act of terrorism, or other man-made disaster that results in extraordinary levels of casualties or damage or disruption severely affecting the population (including mass evacuations), infrastructure, environment, economy, national morale, or government functions in an area.

As it enters the 2007 hurricane season, FEMA is an organization in transition that is working to implement the reorganization mandated by the Post-Katrina Reform Act and moving forward on initiatives to implement a comprehensive, risk-based national emergency management system as required by the Act. In November 2006, the Comptroller wrote to the congressional leadership suggesting that one area needing fundamental reform and oversight was preparing for, responding to, and rebuilding after catastrophic disasters. Among the topics that Congress might consider for oversight are:

- the development and implementation of the National Preparedness System, including preparedness for natural disasters, terrorist incidents, and an influenza pandemic;
- the assessment of state and local capabilities and the use of federal grants in building and sustaining those capabilities;
- regional and multi-state planning and preparedness;
- the status and use of preparedness exercises; and
- DHS policies that affect the transparency of its efforts to improve the nation's preparedness for and response to major and catastrophic disasters.

Background

Several federal legislative and executive provisions support preparation for and response to emergency situations. The Robert T. Stafford Disaster Relief and Emergency Assistance Act (the Stafford Act)⁴ primarily establishes the programs and processes for the federal government to provide major disaster and emergency assistance to state, local, and tribal governments, individuals, and qualified private nonprofit organizations. FEMA, within DHS, has responsibility for administering the provisions of the Stafford Act.

Besides using these federal resources, states affected by a catastrophic disaster can also turn to other states for assistance in obtaining surge capacity—the ability to draw on additional resources, such as personnel and equipment, needed to respond to and recover from the incident. One way of sharing personnel and equipment across state lines is through the use of the Emergency Management Assistance Compact, an interstate compact that provides a legal and administrative framework for managing such emergency requests. The compact includes 49 states, the District of

⁴The Stafford Act is codified as amended at 42 U.S.C. § 5121 et seq.

Columbia, Puerto Rico and the U.S. Virgin Islands.⁵ We have ongoing work examining how the Emergency Management Assistance Compact has been used in disasters and how its effectiveness could be enhanced and expect to report by this summer.

As the committee is aware, a number of specific recommendations for improving the nation's ability to effectively prepare for and respond to catastrophic disasters following the aftermath of Hurricane Katrina. Beginning in February 2006, reports by the House Select Bipartisan Committee to Investigate the Preparation for and Response to Hurricane Katrina,⁶ the Senate Homeland Security and Governmental Affairs Committee,⁷ the White House Homeland Security Council,⁸ the DHS Inspector General,⁹ and DHS and FEMA¹⁰ all identified a variety of failures and some strengths in the preparations for, response to, and initial recovery from Hurricane Katrina. In addition to these reviews, a report from the American National Standards Institute Homeland Security Standards Panel (ANSI-HSSP) contains recommendations aimed at bolstering national preparedness, response, and recovery efforts in the event of a natural disaster. A key resource identified in the document is the American National Standard for Disaster/Emergency Management and Business Continuity Programs (ANSI/NFPA 1600), which was developed by the National Fire Protection Association (NFPA). The standard defines a common set of criteria for preparedness, disaster management, emergency management, and business continuity programs.

⁵California is currently not a member of EMAC as the state's legislation approving its membership in the compact had expired.

⁶House of Representatives, House Select Bipartisan Committee to Investigate the Preparation for and Response to Hurricane Katrina. *A Failure of Initiative: Final Report of the House Select Bipartisan Committee to Investigate the Preparation for And Response to Hurricane Katrina* (Washington, D.C.: Feb. 15, 2006).

⁷U.S. Senate Committee on Homeland Security and Governmental Affairs. *Hurricane Katrina: A Nation Still Unprepared* (Washington, D.C.: May 2006).

⁸White House Homeland Security Council. *The Federal Response to Hurricane Katrina: Lessons Learned* (Washington, D.C.: Feb. 23, 2006).

⁹Department of Homeland Security's Office of Inspector General. *A Performance Review of FEMA's Disaster Management Activities in Response to Hurricane Katrina*, OIG-06-32 (Washington, D.C.: Mar. 31, 2006).

¹⁰Federal Emergency Management Agency. *DHS/FEMA Initial Response Hotwash: Hurricane Katrina in Louisiana*, DR-1603-LA (Baton Rouge, Louisiana. Feb. 13, 2006).

Hurricane Katrina severely tested disaster management at the federal, state, and local levels and revealed weaknesses in the basic elements of preparing for, responding to, and recovering from any catastrophic disaster. Based on our work done during the aftermath of Hurricane Katrina, we previously reported that DHS needs to more effectively coordinate disaster preparedness, response, and recovery efforts, particularly for catastrophic disasters in which the response capabilities of state and local governments are almost immediately overwhelmed.¹¹ Our analysis showed the need for (1) clearly defined and understood leadership roles and responsibilities; (2) the development of the necessary disaster capabilities; and (3) accountability systems that effectively balance the need for fast and flexible response against the need to prevent waste, fraud, and abuse. In line with a recommendation we made following Hurricane Andrew, the nation's most destructive hurricane prior to Katrina, we recommended that Congress give federal agencies explicit authority to take actions to prepare for all types of catastrophic disasters when there is warning. We also recommended that DHS

1. rigorously retest, train, and exercise its recent clarification of the roles, responsibilities, and lines of authority for all levels of leadership, implementing changes needed to remedy identified coordination problems;
2. direct that the NRP base plan and its supporting Catastrophic Incident Annex be supported by more robust and detailed operational implementation plans;
3. provide guidance and direction for federal, state, and local planning, training, and exercises to ensure such activities fully support preparedness, response, and recovery responsibilities at a jurisdictional and regional basis;
4. take a lead in monitoring federal agencies' efforts to prepare to meet their responsibilities under the NRP and the interim National Preparedness Goal; and

¹¹GAO, *Catastrophic Disasters: Enhanced Leadership, Capabilities, and Accountability Controls Will Improve the Effectiveness of the Nation's Preparedness, Response, and Recovery System*, [GAO-06-618](#) (Washington, D.C.: Sept. 6, 2006).

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5. use a risk management approach in deciding whether and how to invest finite resources in specific capabilities for a catastrophic disaster.

The Post-Katrina Reform Act responded to the findings and recommendations in the various reports examining the preparation for and response to Hurricane Katrina. While keeping FEMA within DHS, the act enhances FEMA's responsibilities and its autonomy within DHS. FEMA is to lead and support the nation in a risk-based, comprehensive emergency management system of preparedness, protection, response, recovery, and mitigation. Under the Act, the FEMA Administrator reports directly to the Secretary of DHS; FEMA is now a distinct entity within DHS; and the Secretary of DHS can no longer substantially or significantly reduce the authorities, responsibilities, or functions of FEMA or the capability to perform them unless authorized by subsequent legislation. FEMA has absorbed many of the functions of DHS's Preparedness Directorate (with some exceptions). The statute establishes 10 regional offices with specified responsibilities. The statute also establishes a National Integration Center responsible for the ongoing management and maintenance of the NIMS and NRP. The Post-Katrina Reform Act also included provisions for other areas, such as evacuation plans and exercises and addressing the needs of individuals with disabilities. In addition, the act includes several provisions to strengthen the management and capability of FEMA's workforce. For example, the statute called for a strategic human capital plan to shape and improve FEMA's workforce, authorized recruitment and retention bonuses, and established a Surge Capacity Force. Most of the organizational changes became effective as of March 31, 2007. Others, such as the increase in organizational autonomy for FEMA and establishment of the National Integration Center, became effective upon enactment of the Post-Katrina Reform Act on October 4, 2006.

FEMA Reviewing Its Responsibilities, Capabilities as It Implements Recommendations and Post-Katrina Reform Act

After FEMA became part of DHS in March 2003, its responsibilities were over time dispersed and redefined. FEMA continues to evolve within DHS as it implements the changes required by the Post-Katrina Reform Act, whose details are discussed later. Hurricane Katrina severely tested disaster management at the federal, state, and local levels and revealed weaknesses in the basic elements of preparing for, responding to, and recovering from any catastrophic disaster. According to DHS, the department completed a thorough assessment of FEMA's internal structure to incorporate lessons learned from Hurricane Katrina and integrate systematically new and existing assets and responsibilities within FEMA.

As I stated in March 2007 testimony, the effective implementation of recent recommendations and the Post-Katrina Reform Act's organizational changes and related roles and responsibilities should address many of our emergency management observations and recommendations. In addition, we previously reported that DHS needs to more effectively coordinate disaster preparedness, response, and recovery efforts, particularly for catastrophic disasters in which the response capabilities of state and local governments are almost immediately overwhelmed.¹² Our analysis showed the need for (1) clearly defined and understood leadership roles and responsibilities; (2) the development of the necessary disaster capabilities; and (3) accountability systems that effectively balance the need for fast and flexible response against the need to prevent waste, fraud, and abuse.

Leadership Is Critical to Prepare for, Respond to, and Recover from Catastrophic Disasters

In preparing for, responding to, and recovering from any catastrophic disaster, the legal authorities, roles and responsibilities, and lines of authority at all levels of government must be clearly defined, effectively communicated, and well understood to facilitate rapid and effective decision making. Hurricane Katrina showed the need to improve leadership at all levels of government to better respond to a catastrophic disaster. As we have previously reported, developing the capabilities needed for catastrophic disasters requires an overall national preparedness effort that is designed to integrate and define what needs to be done, where, and by whom (roles and responsibilities), how it should be done, and how well it should be done—that is, according to what standards. The principal national documents designed to address each of these are, respectively, the NRP, NIMS, and the NPG.

All three documents are undergoing extensive review and revision by federal, state, and local government officials, tribal authorities, non-

governmental and private sector officials.¹² For example, the review of the NRP is intended to assess the effectiveness of the NRP, identify modifications and improvements and reissue the document. This review includes all major components of the NRP including the base plan, Emergency Support Functions (ESF), annexes such as the Catastrophic Incident Annex and Supplement; as well as the role of the PFO, FCO, and the Joint Field Office structure. Also during the current NRP review period, FEMA has revised the organizational structure of ESF-6 (Mass Care, Housing, and Human Services) and places FEMA as the lead agency for this emergency support function. The Red Cross will remain as a supporting agency in the responsibilities and activities of ESF-6. According to a February 2007 letter by the Red Cross, this change will not take place until the NRP review process is complete and all changes are approved.

The revised NRP and NIMS were originally scheduled for release in June 2007. In April 2007, however, DHS officials notified stakeholders that some important issues were more complex and require national-level policy decisions, and additional time was needed to complete a comprehensive draft. DHS noted that the underlying operational principles of the NRP remain intact and the current document, as revised in May 2006, still applies. FEMA officials have told us that the final version of the National Preparedness Goal and its corresponding documents like the Target Capabilities List, are currently receiving final reviews by the White House and are expected to be out shortly.

A key issue in the response to Hurricane Katrina was the lack of clearly understood roles and responsibilities. One that continues to be a subject of discussion is the roles and responsibilities of the FCO, who has the authority to make mission assignments to federal agencies for response and recovery under the Stafford Act, and the PFO, whose role was to provide situational awareness to the Secretary of Homeland Security. The May 2006 revisions to the NRP made changes designed to address this

¹²On May 25, 2006, DHS released changes to the NRP regarding leadership issues, such as which situations require secretarial leadership; the process for declaring incidents of national significance; and the scope of the NRP and its Catastrophic Incident Annex. The revised NRP clearly states that the Secretary of Homeland Security, who reports directly to the President, is responsible for declaring and managing incidents of national significance, including catastrophic ones. At the time of Hurricane Katrina, the supplement to the catastrophic incident annex, which provides more detail on implementing the annex, was still in draft. Subsequent to Hurricane Katrina, DHS published the final supplement to the Catastrophic Incident Annex, dated August 2006.

issue. However, as we noted in March 2007, the changes may not have fully resolved the leadership issues regarding the roles of the PFO and the FCO. While the Secretary of Homeland Security may avoid conflicts by appointing a single individual to serve in both positions in non-terrorist incidents, confusion may persist if the Secretary of Homeland Security does not exercise this discretion to do so. Furthermore, this discretion does not exist for terrorist incidents, and the revised NRP does not specifically provide a rationale for this limitation.

FEMA has pre-designated five teams of FCOs and PFOs in the Gulf Coast and eastern seaboard states at risk of hurricanes. This includes FCOs and PFOs for the Gulf Coast Region,¹³ Northeast Region,¹⁴ and the Mid-Atlantic Region,¹⁵ and separate FCOs and PFOs for the states of Florida and Texas. It is critically important that the authorities, roles, and responsibilities of these pre-designated FCOs and PFOs be clear and clearly understood by all. There is still some question among state and local first responders about the need for both positions and how they will work together in disaster response. One potential benefit of naming the FCOs and PFOs in advance is that they have an opportunity meet and discuss expectations, roles and responsibilities with state, local, and nongovernmental officials prior to an actual disaster, possibly setting the groundwork for improved coordination and communication in an actual disaster.

Enhanced Capabilities Are Needed to Adequately Prepare for and Respond to Major Disasters

Numerous reports, including those by the House, Senate, and the White House, and our own work suggest that the substantial resources and capabilities marshaled by state, local, and federal governments and nongovernmental organizations were insufficient to meet the immediate challenges posed by the unprecedented degree of damage and the number of victims caused by Hurricanes Katrina and Rita. Developing the capabilities needed for catastrophic disasters should be part of an overall national preparedness effort that is designed to integrate and define what needs to be done and where, how it should be done, and how well it should be done—that is, according to what standards. As previously discussed, the principal national documents designed to address each of

¹³Includes Alabama, Mississippi, and Louisiana.

¹⁴Includes New York, New Jersey, New England, Puerto Rico, and the U.S. Virgin Islands.

¹⁵Includes Georgia, South Carolina, North Carolina, Virginia, District of Columbia, Maryland, Delaware, Pennsylvania, and Rhode Island.

these are, respectively, the NRP, NIMS, and the National Preparedness Goal, and each document is undergoing revision.

Overall, capabilities are built upon the appropriate combination of people, skills, processes, and assets. Ensuring that needed capabilities are available requires effective planning and coordination in conjunction with training and exercises in which the capabilities are realistically tested and problems identified and subsequently addressed in partnership with other federal, state, and local stakeholders. In recent work on FEMA management of day-to-day operations, we found that although shifting resources caused by its transition to DHS created challenges for FEMA, the agency's management of existing resources compounded these problems.¹⁶ FEMA lacks some of the basic management tools that help an agency respond to changing circumstances. Most notably, our January 2007 report found that FEMA lacks a strategic workforce plan and related human capital strategies—such as succession planning or a coordinated training effort. Such tools are integral to managing resources, as they enable an agency to define staffing levels, identify the critical skills needed to achieve its mission, and eliminate or mitigate gaps between current and future skills and competencies. FEMA officials have said they are beginning to address these and other basic organizational management issues. To this end, FEMA has commissioned studies of 18 areas, whose final reports and recommendations are due later this spring.¹⁷

An important element of effective emergency response is the ability to identify and deploy where needed a variety of resources from a variety of sources—federal, state, local or tribal governments, military assets of the National Guard or active military, nongovernmental entities, and the private sector. One key method of tapping resources in areas not affected by the disaster is the Emergency Management Assistance Compact (EMAC). Through EMAC about 46,000 National Guard and 19,000 civilian

¹⁶GAO, *Budget Issues: FEMA Needs Adequate Data, Plans, and Systems to Effectively Manage Resources for Day-to-Day Operations*, GAO-07-139 (Washington, D.C.: Jan. 19, 2007).

¹⁷The areas are (1) individual assistance technical assistance contract, (2) contractor management program, (3) facilities; (4) payment process for contractors, (5) finance center operations, (6) capital planning and investment control, (7) security, (8) human resources, (9) logistics, (10) acquisition, (11) disaster emergency communications, (12) decision support systems (data resource management), (13) disaster workforce, (14) information technology, (15) federal coordinating officer cadre, (16) financial systems, (17) budget process, and (18) disaster relief fund.

responders were deployed to areas directly affected by the 2005 Gulf Coast hurricanes. We have ongoing work examining how the Emergency Management Assistance Compact has been used in disasters and how its effectiveness could be enhanced and expect to report by this summer.

One of the resources accessed through EMAC is the National Guard. States and governors rely on their National Guard personnel and equipment for disaster response, and National Guard personnel are frequently deployed to disaster areas outside their home states. However, as we reported in January 2007 the types and quantities of equipment the National Guard needs to respond to large-scale disasters have not been fully identified because the multiple federal and state agencies that would have roles in responding to such events have not completed and integrated their plans.¹⁸ As a liaison between the Army, the Air Force, and the states, the National Guard Bureau is well positioned to facilitate state planning for National Guard forces. However, until the bureau's charter and its civil support regulation are revised to define its role in facilitating state planning for multistate events, such planning may remain incomplete, and the National Guard may not be prepared to respond as effectively and efficiently as possible. In addition, questions have arisen about the level of resources the National Guard has available for domestic emergency response. DOD does not routinely measure the equipment readiness of nondeployed National Guard forces for domestic civil support missions or report this information to Congress. Thus, although the deployment of National Guard units overseas has decreased the supply of equipment available to nondeployed National Guard units in the U.S., there has been no established, formal method of assessing the impact on the Guard's ability to perform its domestic missions. Although DOD has begun to collect data on units' preparedness, these efforts are not yet fully mature.

The nation's experience with Hurricanes Katrina and Rita reinforces some of the questions surrounding the adequacy of capabilities in the context of a catastrophic disaster—particularly in the areas of (1) situational assessment and awareness, (2) emergency communications, (3) evacuations, (4) search and rescue, (5) logistics, and (6) mass care and sheltering. FEMA has taken a number of actions to address identified deficiencies in each of these areas. Examples include designating national and regional situational awareness teams; acquiring and deploying mobile

¹⁸GAO, *Reserve Forces: Actions Needed to Identify National Guard Domestic Equipment Requirements and Readiness*, GAO-07-60 (Washington, D.C.: Jan. 26, 2007).

satellite communications trucks; developing an electronic system for receiving and tracking the status of requests for assistance and supplies; acquiring GPS equipment for tracking the location of supplies on route to areas of need; working with the Red Cross, the Salvation Army, and others to clarify roles and responsibilities for mass care, housing, and human services. However, none of these initiatives appear to have been tested on a scale that reasonably simulates the conditions and demand they would face following a major or catastrophic disaster. Thus, it is difficult to assess the probable results of these initiatives in improving response to such a disaster, such as a category 4 or 5 hurricane. The section below briefly discusses actions taken or underway to make improvements in each of these areas. Additional details can be found in appendix I.

Situational Awareness. FEMA is developing a concept for rapidly deployable interagency incident management teams, at this time called National Incident Management Team, to provide a forward federal presence on site within 12 hours of notification to facilitate managing the national response for catastrophic incidents. These teams will support efforts to meet the emergent needs during disasters such as the capability to provide initial situational awareness for decision-makers and support the initial establishment of a unified command.

Emergency Communications. Agencies' communications systems during a catastrophic disaster must first be operable, with sufficient communications to meet everyday internal and emergency communication requirements. Once operable, they then should have communications interoperability whereby public safety agencies (e.g., police, fire, emergency medical services, etc.) and service agencies (e.g., public works, transportation, and hospitals) can communicate within and across agencies and jurisdictions in real time as needed. DHS officials have identified a number of programs and activities they have implemented to improve interoperable communications nationally, and FEMA has taken action to design, staff, and maintain a rapidly deployable, responsive, interoperable, and reliable emergency communications capability, which we discuss further in Appendix I.

Logistics. FEMA's inability to effectively manage and track requests for and the distribution of water, ice, food, and other supplies came under harsh criticism in the wake of Hurricane Katrina. Within days, FEMA became overwhelmed and essentially asked the military to take over much

of the logistics mission.¹⁹ In the Post-Katrina Reform Act, Congress required FEMA to make its logistics system more flexible and responsive. FEMA's improvements to its logistics strategy and efforts are designed to initially lean forward and provide immediate support to a disaster site mainly through FEMA-owned goods and assets, and later on to establish sustained supply chains with the private vendors whose resources are needed for ongoing response and recovery activities, according to FEMA officials. In addition, we recently examined FEMA logistics issues, taking a broad approach, identifying five areas necessary for an effective logistics system, which are discussed in Appendix I. In short, FEMA is taking many actions to transition its logistics program to be more proactive, flexible, and responsive. While these and other initiatives hold promise for improving FEMA's logistics capabilities, it will be several years before they are fully implemented and operational.

Mass Care and Shelter. In GAO's work examining the nation's ability to evacuate, care for, and shelter disaster victims, we found that FEMA needs to identify and assess the capabilities that exist across the federal government and outside the federal government. In an April testimony, FEMA's Deputy Director for Operations said that emergency evacuation, shelter and housing is FEMA's most pressing priority for planning for recovery from a catastrophic disaster. He said that FEMA is undertaking more detailed mass evacuee support planning; the Department of Justice and Red Cross are developing methods for more quickly identifying and uniting missing family members; and FEMA and the Red Cross have developed a web-based data system to support shelter management, reporting, and facility identification activities.

Balance Needed between Quick Provision of Assistance and Ensuring Accountability to Protect against Waste, Fraud, and Abuse

Controls and accountability mechanisms help to ensure that resources are used appropriately. Nevertheless, during a catastrophic disaster, decision makers struggle with the tension between implementing controls and accountability mechanisms and the demand for rapid response and recovery assistance. On one hand, our work uncovered many examples where quick action could not occur due to procedures that required extensive, time-consuming processes, delaying the delivery of vital supplies and other assistance. On the other hand, we also found examples where FEMA's processes assisting disaster victims left the federal

¹⁹GAO, *Hurricane Katrina: Better Plans and Exercises Needed to Guide the Military's Response to Catastrophic Natural Disasters*. [GAO-06-643](#) (Washington, D.C.: May 15, 2006).

government vulnerable to fraud and the abuse of expedited assistance payments.

We estimated that through February 2006, FEMA made about \$600 million to \$1.4 billion in improper and potentially fraudulent payments to applicants who used invalid information to apply for expedited cash assistance. DHS and FEMA have reported a number of actions that are to be in effect for the 2007 hurricane season so that federal recovery programs will have more capacity to rapidly handle a catastrophic incident but also provide accountability. Examples include significantly increasing the quantity of prepositioned supplies, such as food, ice, and water; placing global positioning systems on supply trucks to track their location and better manage the delivery of supplies; creating an enhanced phone system for victim assistance applications that can handle up to 200,000 calls per day; and improving computer systems and processes for verifying the eligibility of those applying for assistance. Effective implementation of these and other planned improvements will be critical to achieving their intended outcomes.²⁰

Finally, catastrophic disasters not only require a different magnitude of capabilities and resources for effective response, they may also require more flexible policies and operating procedures. In a catastrophe, streamlining, simplifying, and expediting decision making should quickly replace “business as usual” and unquestioned adherence to long-standing policies and operating procedures used in normal situations for providing relief to disaster victims. At the same time, controls and accountability mechanisms must be sufficient to provide the documentation needed for expense reimbursement and reasonable assurance that resources have been used legally and for the purposes intended.

We have recommended that DHS create accountability systems that effectively balance the need for fast and flexible response against the need to prevent waste, fraud, and abuse. Doing so would enable DHS to provide assistance quickly following a catastrophe and keep up with the magnitude of needs to confirm the eligibility of victims for disaster assistance, or assure that there were provisions in contracts for response and recovery services to ensure fair and reasonable prices in all cases. We

²⁰GAO, *Hurricanes Katrina and Rita Disaster Relief: Prevention Is the Key to Minimizing Fraud, Waste, and Abuse in Recovery Efforts*. [GAO-07-418T](#). Washington, D.C.: January 29, 2007.

also recommended that DHS provide guidance on advance procurement practices and procedures (precontracting) for those federal agencies with roles and responsibilities under the NRP. These federal agencies could then better manage disaster-related procurement and establish an assessment process to monitor agencies' continuous planning efforts for their disaster-related procurement needs and the maintenance of capabilities. For example, we identified a number of emergency response practices in the public and private sectors that provide insight into how the federal government can better manage its disaster-related procurements. These practices include developing knowledge of contractor capabilities and prices, and establishing vendor relationships prior to the disaster and establishing a scalable operations plan to adjust the level of capacity to match the response with the need.²¹

In my March 2007 testimony I noted that recent statutory changes have established more controls and accountability mechanisms. For example, The Secretary of DHS is required to promulgate regulations designed to limit the excessive use of subcontractors and subcontracting tiers. The Secretary of DHS is also required to promulgate regulations that limit certain noncompetitive contracts to 150 days, unless exceptional circumstances apply. Oversight funding is specified. FEMA may dedicate up to one percent of funding for agency mission assignments as oversight funds. The FEMA Administrator must develop and maintain internal management controls of FEMA disaster assistance programs and develop and implement a training program to prevent fraud, waste, and abuse of federal funds in response to or recovery from a disaster. Verification measures must be developed to identify eligible recipients of disaster relief assistance.

the Post-Katrina Reform Act requires FEMA to develop and implement a contracting system that maximizes the use of advance contracting to the extent practical and cost-effective.

²¹GAO, *Homeland Security: Management and Programmatic Challenges Facing the Department of Homeland Security*, [GAO-07-452T](#) (Washington, D.C.: Feb. 7, 2007).

Several Disaster Management Issues Should Have Continued Congressional Attention

In November 2006, the Comptroller General wrote to the congressional leadership suggesting areas for congressional oversight.²² He suggested that one area needing fundamental reform and oversight was preparing for, responding to, recovering from, and rebuilding after catastrophic events. Recent events—notably Hurricane Katrina and the threat of an influenza pandemic—have illustrated the importance of ensuring a strategic and integrated approach to catastrophic disaster management. Disaster preparation and response that is well planned and coordinated can save lives and mitigate damage, and an effectively functioning insurance market can substantially reduce the government’s exposure to post-catastrophe payouts.

Lessons learned from past national emergencies provide an opportunity for Congress to look at actions that could mitigate the effects of potential catastrophic events. On January 18, 2007, DHS provided Congress a notice of implementation of the Post-Katrina Reform Act reorganization requirements and additional organizational changes made under the Homeland Security Act of 2002. All of the changes, according to DHS, were to become effective on March 31, 2007. As stated in our March 2007 testimony, the effective implementation of the Post-Katrina Reform Act’s organizational changes and related roles and responsibilities—in addition to those changes already undertaken by DHS—should address many of our emergency management observations and recommendations.

The Comptroller General also suggested in November 2006 that Congress could also consider how the federal government can work with other nations, other levels of government, and nonprofit and private sector organizations, such as the Red Cross and private insurers, to help ensure the nation is well prepared and recovers effectively. Given the billions of dollars dedicated to preparing for, responding to, recovering from, and rebuilding after catastrophic disasters, congressional oversight is critical.

A comprehensive and in-depth oversight agenda would require long-term efforts. Congress might consider starting with several specific areas for immediate oversight, such as (1) evaluating development and implementation of the National Preparedness System, including preparedness for an influenza pandemic, (2) assessing state and local capabilities and the use of federal grants in building and sustaining those

²²GAO, *Suggested Areas for Oversight for the 110th Congress*. [GAO-07-235R](#) (Washington, D.C.: Nov. 17, 2006).

capabilities, (3) examining regional and multi-state planning and preparation, (4) determining the status of preparedness exercises, and (5) examining DHS policies regarding oversight assistance.

DHS Has Reorganized Pursuant to the Post-Katrina Reform Act

On January 18, 2007, DHS provided Congress a notice of implementation of the Post-Katrina Reform Act reorganization requirements and additional organizational changes made under the Homeland Security Act of 2002. All of the changes, according to DHS, were to become effective on March 31, 2007. According to DHS, the department completed a thorough assessment of FEMA's internal structure to incorporate lessons learned from Hurricane Katrina and integrate systematically new and existing assets and responsibilities within FEMA. DHS transferred the following DHS offices and divisions to FEMA:

- United States Fire Administration,
- Office of Grants and Training,
- Chemical Stockpile Emergency Preparedness Division,
- Radiological Emergency Preparedness Program,
- Office of National Capital Region Coordination, and,
- Office of State and Local Government Coordination.

DHS officials stated that they have established several organizational elements, such as a logistics management division, a disaster assistance division, and a disaster operations division. In addition, FEMA expanded its regional office structure with each region in part by establishing a Regional Advisory Council and at least one Regional Strike Team. With the recent appointment of the director for region III, FEMA officials noted that for the first time in recent memory there will be no acting regional directors and all 10 FEMA regional offices will be headed by experienced professionals.

Further, FEMA will include a new national preparedness directorate intended to consolidate FEMA's strategic preparedness assets from existing FEMA programs and certain legacy Preparedness Directorate programs. The National Preparedness Directorate will contain functions related to preparedness doctrine, policy, and contingency planning. It also will include the National Integration Center that will maintain the NRP and NIMS and ensure that training and exercise activities reflect these documents.

Effective Implementation of the Post-Katrina Reform Act's Provisions Should Respond to Many Concerns

As I have previously stated in my March 2007 testimony, the effective implementation of the Post-Katrina Reform Act's organizational changes and related roles and responsibilities—in addition to those changes already undertaken by DHS—should address many of our emergency management observations and recommendations.

As noted earlier, our analysis in the aftermath of Hurricane Katrina showed the need for (1) clearly defined and understood leadership roles and responsibilities; (2) the development of the necessary disaster capabilities; and (3) accountability systems that effectively balance the need for fast and flexible response against the need to prevent waste, fraud, and abuse. The statute appears to strengthen leadership roles and responsibilities. For example, the statute clarifies that the FEMA Administrator is to act as the principal emergency management adviser to the President, the Homeland Security Council, and the Secretary of DHS and to provide recommendations directly to Congress after informing the Secretary of DHS. The incident management responsibilities and roles of the National Integration Center are now clear. The Secretary of DHS must ensure that the NRP provides for a clear chain of command to lead and coordinate the federal response to any natural disaster, act of terrorism, or other man-made disaster. The law also establishes qualifications that appointees must meet. For example, the FEMA Administrator must have a demonstrated ability in and knowledge of emergency management and homeland security and 5 years of executive leadership and management experience.

Many provisions are designed to enhance preparedness and response. For example, the statute requires the President to establish a national preparedness goal and national preparedness system. The national preparedness system includes a broad range of preparedness activities, including utilizing target capabilities and preparedness priorities, training and exercises, comprehensive assessment systems, and reporting requirements. To illustrate, the FEMA Administrator is to carry out a national training program to implement, and a national exercise program to test and evaluate the National Preparedness Goal, NIMS, NRP, and other related plans and strategies.

In addition, FEMA is to partner with nonfederal entities to build a national emergency management system. States must develop plans that include catastrophic incident annexes modeled after the NRP annex in order to be eligible for FEMA emergency preparedness grants. The state annexes must be developed in consultation with local officials, including regional commissions. FEMA regional administrators are to foster the development

of mutual aid agreements between states. FEMA must enter into a memorandum of understanding with certain non-federal entities to collaborate on developing standards for deployment capabilities, including credentialing of personnel and typing of resources. In addition, FEMA must implement several other capabilities, such as (1) developing a logistics system providing real-time visibility of items at each point throughout the logistics system, (2) establishing a prepositioned equipment program, and (3) establishing emergency support and response teams.

The National Preparedness System Is Key to Developing Disaster Capabilities

More immediate congressional attention might focus on evaluating the construction and effectiveness of the National Preparedness System, which is mandated under the Post-Katrina Reform Act. Under Homeland Security Presidential Directive-8, issued in December 2003, DHS was to coordinate the development of a national domestic all-hazards preparedness goal “to establish measurable readiness priorities and targets that appropriately balance the potential threat and magnitude of terrorist attacks and large scale natural or accidental disasters with the resources required to prevent, respond to, and recover from them.” The goal was also to include readiness metrics and standards for preparedness assessments and strategies and a system for assessing the nation’s overall preparedness to respond to major events.

To implement the directive, DHS developed the National Preparedness Goal using 15 emergency event scenarios, 12 of which were terrorist related, with the remaining 3 addressing a major hurricane, major earthquake, and an influenza pandemic. According to DHS’s National Preparedness Guidance, the planning scenarios are intended to illustrate the scope and magnitude of large-scale, catastrophic emergency events for which the nation needs to be prepared and to form the basis for identifying the capabilities needed to respond to a wide range of large scale emergency events. The scenarios focused on the consequences that first responders would have to address. Some state and local officials and experts have questioned whether the scenarios were appropriate inputs for preparedness planning, particularly in terms of their plausibility and the emphasis on terrorist scenarios.

Using the scenarios, and in consultation with federal, state, and local emergency response stakeholders, DHS developed a list of over 1,600 discrete tasks, of which 300 were identified as critical. DHS then identified 36 target capabilities to provide guidance to federal, state, and local first responders on the capabilities they need to develop and maintain. That list

has since been refined, and DHS released a revised draft list of 37 capabilities in December 2005. Because no single jurisdiction or agency would be expected to perform every task, possession of a target capability could involve enhancing and maintaining local resources, ensuring access to regional and federal resources, or some combination of the two. However, DHS is still in the process of developing goals, requirements, and metrics for these capabilities and the National Preparedness Goal in light of the Hurricane Katrina experience.

Several key components of the National Preparedness System defined in the Post-Katrina Reform Act—the National Preparedness Goal, target capabilities and preparedness priorities, and comprehensive assessment systems—should be closely examined. Prior to Hurricane Katrina, DHS had established seven priorities for enhancing national first responder preparedness, including, for example, implementing the NRP and NIMS; strengthening capabilities in information sharing and collaboration; and strengthening capabilities in medical surge and mass prophylaxis. Those seven priorities were incorporated into DHS's fiscal year 2006 homeland security grant program (HSGP) guidance, which added an eighth priority that emphasized emergency operations and catastrophic planning.

In the fiscal year 2007 HSGP program guidance, DHS set two overarching priorities. DHS has focused the bulk of its available grant dollars on risk-based investment. In addition, the department has prioritized regional coordination and investment strategies that institutionalize regional security strategy integration. In addition to the two overarching priorities, the guidance also identified several others. These include (1) measuring progress in achieving the National Preparedness Goal, (2) integrating and synchronizing preparedness programs and activities, (3) developing and sustaining a statewide critical infrastructure/key resource protection program, (4) enabling information/intelligence fusion, (5) enhancing statewide communications interoperability, (6) strengthening preventative radiological/nuclear detection capabilities, and (7) enhancing catastrophic planning to address nationwide plan review results. Under the guidance, all fiscal year 2007 HSGP applicants will be required to submit an investment justification that provides background information, strategic objectives and priorities addressed, their funding/implementation plan, and the impact that each proposed investment (project) is anticipated to have.

The Particular Challenge of Preparing for an Influenza Pandemic

The possibility of an influenza pandemic is a real and significant threat to the nation. There is widespread agreement that it is not a question of if but when such a pandemic will occur. The issues associated with the preparation for and response to a pandemic flu are similar to those for any other type of disaster: clear leadership roles and responsibilities, authority, and coordination; risk management; realistic planning, training, and exercises; assessing and building the capacity needed to effectively respond and recover; effective information sharing and communication; and accountability for the effective use of resources.

However, a pandemic poses some unique challenges. Hurricanes, earthquakes, explosions, or bioterrorist incidents occur within a short period of time, perhaps a period of minutes, although such events can have long-term effects, as we have seen in the Gulf region following Hurricane Katrina. The immediate effects of such disasters are likely to affect specific locations or areas within the nation; the immediate damage is not nationwide. In contrast, an influenza pandemic is likely to continue in waves of 6 to 8 weeks for a number of weeks or months and affect wide areas of the nation, perhaps the entire nation. Depending upon the severity of the pandemic, the number of deaths could be from 200,000 to 2 million. Seasonal influenza in the United States results in about 36,000 deaths annually. Successfully addressing the pandemic is also likely to require international coordination of detection and response.

The Department of Health and Human Services estimates that during a severe pandemic, absenteeism may reach as much as 40 percent in an affected community because individuals are ill, caring for family members, or fear infection. Such absenteeism could affect our nation's economy, as businesses and governments face the challenge of continuing to provide essential services with reduced numbers of healthy workers. In addition, our nation's ability to respond effectively to hurricanes or other major disasters during a pandemic may also be diminished as first responders, health care workers, and others are infected or otherwise unable to perform their normal duties. Thus, the consequences of a pandemic are potentially widespread and effective planning and response for such a disaster will require particularly close cooperation among all levels of government, the private sector, individuals within the United States, as well as international cooperation.

We have engagements under way examining such issues as barriers to implementing the Department of Health and Human Services' National Pandemic Influenza Plan, the national strategy and framework for pandemic influenza, the Department of Defense and Department of

Agriculture's preparedness efforts and plans, public health and hospital preparedness, and U.S. efforts to improve global disease surveillance. We expect most of these reports to be issued by late summer 2007.

Knowledge of the Effects of State and Local Efforts to Improve Their Capabilities Is Limited

Possible congressional oversight in the short term also might focus on state and local capabilities. As I testified before this subcommittee last month on applying risk management principles to guide federal investments, over the past 4 years DHS has provided about \$14 billion in federal funding to states, localities, and territories through its HSGP grants. Remarkably, however, we know little about how states and localities finance their efforts in this area, have used their federal funds, and are assessing the effectiveness with which they spend those funds.

Essentially, all levels of government are still struggling to define and act on the answers to basic, but hardly simple, questions about emergency preparedness and response: What is important (that is, what are our priorities)? How do we know what is important (e.g., risk assessments, performance standards)? How do we measure, attain, and sustain success? On what basis do we make necessary trade-offs, given finite resources?

There are no simple, easy answers to these questions. The data available for answering them are incomplete and imperfect. We have better information and a better sense of what needs to be done for some types of major emergency events than for others. For some natural disasters, such as regional wildfires and flooding, there is more experience and therefore a better basis on which to assess preparation and response efforts and identify gaps that need to be addressed. California has experience with earthquakes; Florida, with hurricanes. However, no one in the nation has experience with such potential catastrophes as a dirty bomb detonated in a major city. Although both the AIDS epidemic and SARS provide some related experience, there have been no recent pandemics that rapidly spread to thousands of people across the nation.

A new feature in the fiscal year 2006 DHS homeland security grant guidance for the Urban Area Security Initiative (UASI) grants was that eligible recipients must provide an "investment justification" with their grant application. States were to use this justification to outline the implementation approaches for specific investments that will be used to achieve the initiatives outlined in their state Program and Capability Enhancement Plan. These plans were multiyear global program management plans for the entire state homeland security program that look beyond federal homeland security grant programs and funding. The

justifications must justify all funding requested through the DHS homeland security grant program. In the guidance DHS noted that it would use a peer review process to evaluate grant applications on the basis of the effectiveness of a state's plan to address the priorities it has outlined and thereby reduce its overall risk.

For fiscal year 2006, DHS implemented a competitive process to evaluate the anticipated effectiveness of proposed homeland security investments. For fiscal year 2007, DHS will continue to use the risk and effectiveness assessments to inform final funding decisions, although changes have been made to make the grant allocation process more transparent and more easily understood. DHS officials have said that they cannot yet assess how effective the actual investments from grant funds are in enhancing preparedness and mitigating risk because they do not yet have the metrics to do so.

Regional and Multistate Planning and Preparation Should Be Robust

Through its grant guidance, DHS has encouraged regional and multistate planning and preparation. Planning and assistance have largely been focused on single jurisdictions and their immediately adjacent neighbors. However, well-documented problems with the abilities of first responders from multiple jurisdictions to communicate at the site of an incident and the potential for large-scale natural and terrorist disasters have generated a debate on the extent to which first responders should be focusing their planning and preparation on a regional and multigovernmental basis.

As I mentioned earlier, an overarching national priority for the National Preparedness Goal is embracing regional approaches to building, sustaining, and sharing capabilities at all levels of government. All HSGP applications are to reflect regional coordination and show an investment strategy that institutionalizes regional security strategy integration. However, it is not known to what extent regional and multi-state planning has progressed and is effective.

Our limited regional work indicated there are challenges in planning. Our early work addressing the Office of National Capital Region Coordination (ONCRC) and National Capital Region (NCR) strategic planning reported that the ONCRC and the NCR faced interrelated challenges in managing federal funds in a way that maximizes the increase in first responder capacities and preparedness while minimizing inefficiency and

unnecessary duplication of expenditures.²³ One of these challenges included a coordinated regionwide plan for establishing first responder performance goals, needs, and priorities, and assessing the benefits of expenditures in enhancing first responder capabilities. In subsequent work on National Capital Region strategic planning, we highlighted areas that needed strengthening in the Region's planning, specifically improving the substance of the strategic plan to guide decision makers.²⁴ For example, additional information could have been provided regarding the type, nature, scope, or timing of planned goals, objectives, and initiatives; performance expectations and measures; designation of priority initiatives to meet regional risk and needed capabilities; lead organizations for initiative implementation; resources and investments; and operational commitment.

Exercises Must Be Carefully Planned and Deployed and Capture Lessons Learned

Our work examining the preparation for and response to Hurricane Katrina highlighted the importance of realistic exercises to test and refine assumptions, capabilities, and operational procedures; build on the strengths; and shore up the limitations revealed by objective assessments of the exercises. The Post-Katrina Reform Act mandates a national exercise program, and training and exercises are also included as a component of the National Preparedness System. With almost any skill and capability, experience and practice enhance proficiency. For first responders, exercises—especially of the type or magnitude of events for which there is little actual experience—are essential for developing skills and identifying what works well and what needs further improvement. Major emergency incidents, particularly catastrophic ones, by definition require the coordinated actions of personnel from many first responder disciplines and all levels of government, nonprofit organizations, and the private sector. It is difficult to overemphasize the importance of effective

²³GAO, *Homeland Security: Management of First Responder Grants in the National Capital Region Reflects the Need for Coordinated Planning and Performance Goals*, [GAO-04-433](#) (Washington, D.C.: May 28, 2004); *Homeland Security: Coordinated Planning and Standards Needed to Better Manage First Responder Grants in the National Capital Region*, [GAO-04-904T](#) (Washington, D.C.: June 24, 2004); *Homeland Security: Effective Regional Coordination Can Enhance Emergency Preparedness*, [GAO-04-1009](#) (Washington, D.C.: Sept. 15, 2004); *Homeland Security: Managing First Responder Grants to Enhance Emergency Preparedness in the National Capital Region*, [GAO-05-889T](#) (Washington, D.C.: July 14, 2005); and *Homeland Security: The Status of Strategic Planning in the National Capital Region*, [GAO-06-559T](#) (Washington, D.C.: Mar. 29, 2006).

²⁴GAO, *Homeland Security: Assessment of the National Capital Region Strategic Plan*, [GAO-06-1096T](#) (Washington, D.C.: Sept. 28, 2006).

interdisciplinary, intergovernmental planning, training, and exercises in developing the coordination and skills needed for effective response.

For exercises to be effective in identifying both strengths and areas needing attention, it is important that they be realistic, designed to test and stress the system, involve all key persons who would be involved in responding to an actual event, and be followed by honest and realistic assessments that result in action plans that are implemented. In addition to relevant first responders, exercise participants should include, depending upon the scope and nature of the exercise, mayors, governors, and state and local emergency managers who would be responsible for such things as determining if and when to declare a mandatory evacuation or ask for federal assistance.

DHS Has Provided Limited Transparency for Its Management or Operational Decisions

Congressional oversight in the short term might include DHS's policies regarding oversight assistance. The Comptroller General has testified that DHS has not been transparent in its efforts to strengthen its management areas and mission functions. While much of its sensitive work needs to be guarded from improper disclosure, DHS has not been receptive toward oversight. Delays in providing Congress and us with access to various documents and officials have impeded our work.

We need to be able to independently assure ourselves and Congress that DHS has implemented many of our past recommendations or has taken other corrective actions to address the challenges we identified. However, DHS has not made its management or operational decisions transparent enough so that Congress can be sure it is effectively, efficiently, and economically using the billions of dollars in funding it receives annually, and is providing the levels of security called for in numerous legislative requirements and presidential directives.

Concluding Observations

Since September 11, 2001, the federal government has awarded billions of dollars in grants and assistance to state and local governments to assist in strengthening emergency management capabilities. DHS has developed several key policy documents, including the NRP, NIMS, and the National Preparedness Goal to guide federal, state, and local efforts. The aftermath of the 2005 hurricane season resulted in a reassessment of the federal role in preparing for and responding to catastrophic events. The studies and reports of the past year—by Congress, the White House Homeland Security Council, the DHS IG, DHS and FEMA, GAO, and others—have provided a number of insights into the strengths and limitations of the

nation's capacity to respond to catastrophic disasters and resulted in a number of recommendations for strengthening that capacity. Collectively, these studies and reports paint a complex mosaic of the challenges that the nation—federal, state, local, and tribal governments; nongovernmental entities; the private sector; and individual citizens—faces in preparing for, responding to, and recovering from catastrophic disasters. The Post-Katrina Reform Act directs many organizational, mission, and policy changes to respond to these findings and challenges.

Assessing, developing, attaining, and sustaining needed emergency preparedness, response, and recovery capabilities is a difficult task that requires sustained leadership, the coordinated efforts of many stakeholders from a variety of first responder disciplines, levels of government, and nongovernmental entities. There is a no “silver bullet,” no easy formula. It is also a task that is never done, but requires continuing commitment and leadership and trade-offs because circumstances change and we will never have the funds to do everything we might like to do.

That concludes my statement, and I would be pleased to respond to any questions you and subcommittee members may have.

Contacts and Staff Acknowledgments

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In addition to the contact named above the following individuals from GAO's Homeland Security and Justice Team also made major contributors to this testimony: Sharon Caudle, Assistant Director; John Vocino, Analyst-in-Charge; Flavio Martinez, Analyst; and Amy Bernstein, Communications Analyst.

Appendix I: Enhanced Capabilities for Catastrophic Response and Recovery

Numerous reports and our own work suggest that the substantial resources and capabilities marshaled by state, local, and federal governments and nongovernmental organizations were insufficient to meet the immediate challenges posed by the unprecedented degree of damage and the number of victims caused by Hurricanes Katrina and Rita. Developing the capabilities needed for catastrophic disasters should be part of an overall national preparedness effort that is designed to integrate and define what needs to be done and where, how it should be done, and how well it should be done—that is, according to what standards. The principal national documents designed to address each of these are, respectively, the NRP, NIMS, and the National Preparedness Goal. The nation’s experience with Hurricanes Katrina and Rita reinforces some of the questions surrounding the adequacy of capabilities in the context of a catastrophic disaster—particularly in the areas of (1) situational assessment and awareness, (2) emergency communications, (3) evacuations, (4) search and rescue, (5) logistics, and (6) mass care and sheltering.

FEMA has taken actions to address identified deficiencies in each of these areas. Examples include designating national and regional situational awareness teams; acquiring and deploying mobile satellite communications trucks; developing an electronic system for receiving and tracking the status of requests for assistance and supplies; acquiring GPS equipment for tracking the location of supplies on route to areas of need; and working with the Red Cross and others to clarify roles and responsibilities for mass care, housing, and human services. This appendix provides additional details of FEMA actions in each of these areas.

FEMA Taking Steps to Improve Situational Assessment Capabilities

Another critical capability that FEMA is modifying is to improve their situational assessment and awareness. FEMA is developing a concept for rapidly deployable interagency incident management teams, at this time called National Incident Management Team, to provide a forward federal presence to facilitate managing the national response for catastrophic incidents. FEMA is planning to establish three national-level teams and ten regional-level teams, one in each of the ten FEMA regions. These teams will support efforts to meet the emergent needs during disasters such as the capability to provide initial situational awareness for decision-makers and support the initial establishment of a unified command. According to FEMA’s plans, these teams will have a multi-agency composition to ensure that the multi-disciplinary requirements of emergency management are met. The teams are envisioned to have the capability to establish an effective Federal presence within 12-hours of notification, to support the

State, to coordinate Federal activities, and to be self sufficient for a minimum of 48-hours so as not to be a drain on potentially scarce local resources. National-level and regional-level teams will be staffed with permanent full-time employees, unlike the ERTs, which are staffed on a collateral duty basis. Team composition will include representatives from other DHS components, interagency and homeland security partners. When not deployed, the teams will team-train with Federal partners and provide a training capability to elevate state and local emergency management capabilities. The teams will also engage in consistent and coordinated operational planning and relationship-building with State, local, tribal, and other stakeholders.

According to FEMA officials, these teams are still being designed and decisions on team assets, equipment, and expected capabilities have not yet been finalized. The new teams are envisioned to eventually subsume the existing FIRST (Federal Incident Response Teams) and ERTs (FEMA's Emergency Response Teams), and their mission and capabilities will incorporate similar concepts involving leadership, emergency management doctrine, and operational competence in communications. FEMA plans to implement one National Incident Management Team and one Regional Incident Management Team by May 25, 2007.

Some Progress Has Been Made on Interoperable Communications

As our past work has noted, emergency communications is a critical capability common across all phases of an incident. Agencies communications systems during a catastrophic disaster must first be operable, with sufficient communications to meet everyday internal and emergency communication requirements. Once operable, they then should have communications interoperability whereby public safety agencies (e.g., police, fire, emergency medical services, etc.) and service agencies (e.g., public works, transportation, and hospitals) can communicate within and across agencies and jurisdictions in real time as needed.

DHS officials have identified a number of program and activities they have implemented to improve interoperable communications nationally. DHS's Office for Interoperability and Compatibility (OIC) was established to strengthen and integrate interoperability and compatibility efforts to improve local, tribal, state, and Federal emergency preparedness and response. SAFECOM, a program of OIC which is transitioning to the Office of Emergency Communications (OEC)—in response to the Post-Katrina Reform Act—is developing tools, templates, and guidance documents, including field tested statewide planning methodologies, online collaboration tools, coordinated grant guidance, communications

requirements, and a comprehensive online library of lessons learned and best practices to improve interoperability and compatibility across the Nation. DHS officials cited the development of the following examples in their efforts to improve interoperable communications:

- Statement of Requirements (SoR) to define operational and functional requirements for emergency response communications.
- Public Safety Architecture Framework (PSAF) to help emergency response agencies map interoperable communications system requirements and identify system gaps.
- Project 25 (P25) suite of standards and a Compliance Assessment Program. This project is in conjunction with the National Institute of Standards and Technology (NIST) to support the efforts of the emergency response community and industry;
- Statewide Communications Interoperability Planning Methodology to offer states a tangible approach as they initiate statewide interoperability planning efforts. SAFECOM also collaborated in DHS grant guidance to help states develop statewide interoperability plans by the end of 2007.

FEMA has taken positive action to design, staff, and maintain a rapidly deployable, responsive, interoperable, and highly reliable emergency communications capability using the latest commercial off-the-shelf voice, video, and data technology. FEMA's Response Division is the designated lead for tactical communications, with situational awareness Information Technology enablers provided by FEMA's Chief Information Officer. Mobile Emergency Response Support (MERS) detachments provide robust, deployable, command, control, and incident communications capabilities to DHS/FEMA elements for catastrophic Incidents of National Significance. The MERS mission supports Emergency Support Function partners at the Federal, State, and local levels of government. The plan is to utilize enhanced MERS capabilities and leverage commercial technology to provide real-time connectivity between communications platforms in a manner consistent with emergency communication deployment doctrine being developed by DHS/FEMA. Emergency managers at the Federal, State, and Local levels of government will benefit from an integrated interoperable emergency communications architecture that includes the Department of Defense, United States Northern Command and the National Guard Bureau.

Our recent work noted that \$2.15 billion in grant funding has been awarded to states and localities from fiscal year 2003 through fiscal year 2005 for communications interoperability enhancements helped to make

improvements on a variety of interoperability projects.¹ However this work noted that the SAFECOM program has made limited progress in improving communications interoperability at all levels of government. For example, the program has not addressed interoperability with federal agencies, a critical element to interoperable communications required by the Intelligence Reform and Terrorism Prevention Act of 2004.² The SAFECOM program has focused on helping states and localities improve interoperable communications by developing tools and guidance for their use. However, based on our review of four states and selected localities, SAFECOM's progress in achieving its goals of helping these states and localities improve interoperable communications has been limited. Officials from the states and localities we reviewed often found that the tools and planning assistance provided by the program were not helpful, or they were unaware of what assistance the program had to offer. The program's limited effectiveness can be linked to poor program management practices, including the lack of a plan for improving interoperability across all levels of government and inadequate performance measures that would provide feedback to better attune tools and assistance with public safety needs. Until SAFECOM adopts these key management practices, its progress is likely to remain limited.

Further, little progress had been made in developing Project 25 standards—a suite of national standards that are intended to enable interoperability among the communications products of different vendors. For example, although one of the eight major subsets of standards was defined in the project's first 4 years (from 1989 to 1993), from 1993 through 2005, no additional standards were completed that could be used by a vendor to develop elements of a Project 25 system. The private-sector coordinating body responsible for Project 25 has defined specifications for three additional subsets of standards. However, ambiguities in the published standards have led to incompatibilities among products made by different vendors, and no compliance testing has been conducted to ensure vendors' products are interoperable. Nevertheless, DHS has strongly encouraged state and local agencies to use grant funding to purchase Project 25 radios, which are substantially more expensive than non-Project 25 radios. As a result, states and local agencies have purchased fewer, more expensive radios, which still may not be

¹GAO, *First Responders: Much Work Remains to Improve Communications Interoperability*. GAO-07-301 (Washington, D.C.: April 2, 2007).

² See 6 U.S.C. § 194(a).

interoperable and thus may provide them with minimal additional benefits. Thus, until DHS takes a more strategic approach here, progress by states and localities in improving interoperability is likely to be impeded.

FEMA Taking Steps to Address Logistics Problems

In the wake of Hurricane Katrina, FEMA's performance in the logistics area came under harsh criticism; within days, FEMA became overwhelmed and essentially asked the military to take over much of the logistics mission.³ In the Post-Katrina Reform Act, Congress required FEMA to make its logistics system more flexible and responsive. FEMA's improvements to their logistics strategy and efforts are designed to initially lean forward and provide immediate support to a disaster site mainly through FEMA-owned goods and assets, and later on to establish sustained supply chains with the private vendors whose resources are needed for ongoing response and recovery activities, according to FEMA officials.

FEMA's immediate capabilities include, for example, its Mobile Emergency Response Support (MERS) resources designed to support a variety of communications requirements—satellite, land mobile radio, computer and telephone systems—with the ability to operate from one or more locations (mobile and stationary) within the response area of operations. FEMA has also developed the Pre-Positioned Disaster Supply program to position life-saving and life-sustaining disaster equipment and supplies as close to a potential disaster site as possible, in order to substantially reduce the initial response time to incidents.⁴ Further, FEMA is developing a Pre-positioned Equipment Program (PEP) that also consists of standardized containers of equipment to provide state and local governments responding to a range of major disasters such equipment as personal protective supplies, decontamination, detection, technical search and rescue, law enforcement, medical, interoperable communications and other emergency response equipment. Currently FEMA has established 8 of the 11 PEP locations, as mandated by the Post-Katrina Reform Act, and FEMA is currently conducting an analysis to determine where the additional PEP sites should be located. FEMA has also stated that it has enhanced its relationships with the public sector with its disaster logistics

³GAO, *Hurricane Katrina: Better Plans and Exercises Needed to Guide the Military's Response to Catastrophic Natural Disasters*. [GAO-06-643](#) (Washington, D.C.: May 15, 2006).

⁴States participating in the PPDS program sign a Memorandum of Agreement with FEMA for the use of the containers.

partners and has worked to utilize the public sector's expertise through Inter-Agency Agreements with the Defense Logistics Agency, the Department of Transportation and Marine Corps Systems Command.

According to FEMA officials, another critical component of creating an effective logistics system is based upon FEMA's ability to work collaboratively with and leverage the capabilities of its public and private partners. FEMA's logistics efforts have identified private sector expertise to improve and develop software systems to increase logistics program efficiency and effectiveness. For example, the Logistics Information Management System (LIMS) is FEMA's formal accountability database system for all property managed within FEMA nation-wide or at disaster field locations. At the same time, FEMA is also developing a multi-phased Total Asset Visibility (TAV) program with the assistance of the private sector to leverage the collective resources of the private and public sector to improve emergency response logistics in the areas of transportation, warehousing, and distribution. The current phase of the program, which is operational at two FEMA logistics centers (Atlanta, Georgia, and Fort Worth, Texas), encompasses two software management packages designed to provide FEMA the ability to inventory disaster response commodities upon arrival at a warehouse, place the commodities in storage, and track the commodities while stored in the warehouse. FEMA plans to expand the capabilities of this first phase of the system to all FEMA Regions during 2007. This will provide FEMA with sufficient logistics management and tracking capabilities until an expanded phase two can be implemented. For the second phase, FEMA is currently conducting market research to solicit input from the private sector and other sources to facilitate final design of the program's second phase. According to FEMA officials, initial operational capabilities for this phase are scheduled to be in place by June 2008, and fully- operational in June 2009. According to FEMA, the completed product will provide a more comprehensive approach to producing real-time, reliable reporting and incorporate FEMA's financial resource tracking requirements. It will also be able to support other federal departments and agencies, non-government organizations, and state, local and tribal organizations under the guidelines of the NRP.

While FEMA has been working to address its logistics capabilities, it is too early to evaluate these efforts. We recently examined FEMA logistics issues, taking a broad approach, identifying five areas necessary for an effective logistics system. Below, we describe these five areas along with FEMA's ongoing actions to address each.

Requirements: FEMA does not yet have operational plans in place to address disaster scenarios, nor does it have detailed information on states' capabilities and resources. As a result, FEMA does not have information from these sources to define what and how much it needs to stock. However, FEMA is developing a concept of operations to underpin its logistics program and told us that it is working to develop detailed plans and the associated stockage requirements. However, until FEMA has solid requirements based on detailed plans, the agency will be unable to assess its true preparedness.

Inventory management: FEMA's system accounts for the location, quantity, and types of supplies, but the ability to track supplies in-transit is limited. FEMA has several efforts under way to improve transportation and tracking of supplies and equipment, such as expanding its new system for in-transit visibility from the two test regions to all FEMA regions.

Facilities: FEMA maintains nine logistics centers and dozens of smaller storage facilities across the country. However, it has little assurance that these are the right number of facilities located in the right places. FEMA officials told us they are in the process of determining the number of storage facilities it needs and where they should be located.

Distribution: Problems persist with FEMA's distribution system, including poor transportation planning, unreliable contractors, and lack of distribution sites. FEMA officials described initiatives under way that should mitigate some of the problems with contractors, and has been working with Department of Defense and Department of Transportation to improve the access to transportation when needed.

People: Human capital issues are pervasive in FEMA, including the logistics area. The agency has a small core of permanent staff, supplemented with contract and temporary disaster assistance staff. However, FEMA's recent retirements and losses of staff, and its difficulty in hiring permanent staff and contractors, have created staffing shortfalls and a lack of capability. According to a January 2007 study commissioned by FEMA, there are significant shortfalls in staffing and skill sets of full-time employees, particularly in the planning, advanced contracting, and relationship management skills needed to fulfill the disaster logistics mission.

FEMA has recently hired a logistics coordinator and is making a concerted effort to hire qualified staff for the entire agency, including logistics.

In short, FEMA is taking many actions to transition its logistics program to be more proactive, flexible, and responsive. While these and other initiatives hold promise for improving FEMA's logistics capabilities, it will be years before they are fully implemented and operational.

Revisions Made to Evacuation Planning, Mass Care, Housing and Human Services

In an April testimony, FEMA's Deputy Director for Operations said that emergency evacuation, shelter and housing is FEMA's most pressing priority for planning for recovery from a catastrophic disaster. He said that FEMA is undertaking more detailed mass evacuee support planning; the Department of Justice and Red Cross are developing methods for more quickly identifying and uniting missing family members; and FEMA and the Red Cross have developed a web-based data system to support shelter management, reporting, and facility identification activities.

Evacuation. Recent GAO work also found that actions are needed to clarify the responsibilities and increase preparedness for evacuations, especially for those transportation-disadvantaged populations. We found that state and local governments are generally not well prepared to evacuate transportation-disadvantaged populations (i.e. planning, training, and conducting exercises), but some states and localities have begun to address challenges and barriers. For example, in June 2006 DHS reported that only about 10 percent of the state and about 12 percent of the urban area emergency plans it reviewed adequately addressed evacuating these populations. Steps being taken by some such governments include collaboration with social service and transportation providers and transportation planning organizations—some of which are Department of Transportation (DOT) grantees and stakeholders—to determine transportation needs and develop agreements for emergency use of drivers and vehicles. The federal government provides evacuation assistance to state and local governments, but gaps in this assistance have hindered many of these governments' ability to sufficiently prepare for evacuations. This includes the lack of any specific requirement to plan, train, and conduct exercises for the evacuation of transportation-disadvantaged populations as well as gaps in the usefulness of DHS's guidance. We recommended that DHS should clarify federal agencies' roles and responsibilities for providing evacuation assistance when state and local governments are overwhelmed. DHS should require state and local evacuation preparedness for transportation-disadvantaged populations

and improve information to assist these governments. DOT should encourage its grant recipients to share information to assist in evacuation preparedness for these populations. DOT and DHS agreed to consider our recommendations, and DHS stated it has partly implemented some of them.

In his April 26, 2007 testimony statement for the House Transportation and Infrastructure Committee, the Deputy FEMA Administrator stated that FEMA is undertaking more detailed mass evacuation support planning to help State and local government plan and prepare for hosting large displaced populations. The project is to include the development of an evacuee registration and tracking capability and implementation plans for federal evacuation support to states.

Mass Care and Shelter. During the current NRP review period, FEMA has revised the organizational structure of ESF-6, Mass Care, Housing, and Human Services, and places FEMA as the primary agency responsible for this emergency support function. The Red Cross will remain as a supporting agency in the responsibilities and activities of ESF-6. FEMA continues to maintain a Memorandum of Understanding (MOU) with Red Cross that articulates agency roles and responsibilities for mass care. The MOU and addendum were recently revised in May 2006 and December 2006, respectively. FEMA is currently working with Red Cross and other support agencies to revise ESF-6 standard operating procedures. According to a February 2007 letter by the Red Cross, this change will not take place until the NRP review process is complete and all changes are approved. According to FEMA's Deputy Director, FEMA and the Red Cross have developed the first phase of a web-based data system to support shelter management, reporting, and facility identification activities. The system is intended for all agencies that provide shelter service during disasters to ensure a comprehensive understanding of the shelter populations and available shelter capacity.

Temporary housing. Other recent GAO work noted that FEMA needs to identify and assess the capabilities that exist across the federal government and outside the federal government, including temporary housing. In a recent report on housing assistance we found that the National Response Plan's annex covering temporary shelter and housing ESF—6 clearly described the overall responsibilities of the two primary

responsible agencies—FEMA and the Red Cross.⁵ However, the responsibilities described for the support agencies—the Departments of Agriculture, Defense, Housing and Urban Development (HUD), and Veterans Affairs—did not, and still do not, fully reflect their capabilities. Further, these support agencies had not, at the time of our work, developed fact sheets describing their roles and responsibilities, notification and activation procedures, and agency-specific authorities, as called for by ESF-6 operating procedures. Our February 2007 report recommended that the support agencies propose revisions to the NRP that fully reflect each respective support agency’s capabilities for providing temporary housing under ESF-6, develop the needed fact sheets, and develop operational plans that provide details on how their respective agencies will meet their temporary housing responsibilities. The Departments of Defense, HUD, Treasury, and the Veterans Administration, and Agriculture, concurred with our recommendations. The Red Cross did not comment on our report or recommendations. As part of a housing task force, FEMA is currently exploring ways of incorporating housing assistance offered by private sector organizations. FEMA says it has also developed a housing portal to consolidate available rental resources for evacuees from Federal agencies, private organizations, and individuals.

⁵GAO, *Disaster Assistance: Better Planning Needed for Housing Victims of Catastrophic Disasters*, [GAO-07-88](#) (Washington, D.C.: Feb. 28, 2007).

Appendix II: Related GAO Products

Homeland Security: Management and Programmatic Challenges Facing the Department of Homeland Security. [GAO-07-833T](#). Washington, D.C.: May 10, 2007

First Responders: Much Work Remains to Improve Communications Interoperability. [GAO-07-301](#). Washington, D.C.: April 2, 2007.

Emergency Preparedness: Current Emergency Alert System Has Limitations, and Development of a New Integrated System Will be Challenging. [GAO-07-411](#). Washington, D.C.: March 30, 2007

Disaster Preparedness: Better Planning Would Improve OSHA's Efforts to Protect Workers' Safety and Health in Disasters. [GAO-07-193](#). Washington, D.C.: March 28, 2007.

Public Health and Hospital Emergency Preparedness Programs: Evolution of Performance Measurement Systems to Measure Progress. [GAO-07-485R](#). Washington, D.C.: March 23, 2007.

Coastal Barrier Resources System: Status of Development That Has Occurred and Financial Assistance Provided by Federal Agencies. [GAO-07-356](#). Washington, D.C.: March 19, 2007.

Hurricanes Katrina and Rita Disaster Relief: Continued Findings of Fraud, Waste, and Abuse. [GAO-07-300](#). Washington, D.C.: March 15, 2007.

Homeland Security: Preparing for and Responding to Disasters. [GAO-07-395T](#). Washington, D.C.: March 9, 2007.

Hurricane Katrina: Agency Contracting Data Should Be More Complete Regarding Subcontracting Opportunities for Small Businesses. [GAO-07-205](#). Washington, D.C.: March 1, 2007.

Hurricane Katrina: Allocation and Use of \$2 Billion for Medicaid and Other Health Care Needs. [GAO-07-67](#). Washington, D.C.: February 28, 2007.

Disaster Assistance: Better Planning Needed for Housing Victims of Catastrophic Disasters. [GAO-07-88](#). Washington, D.C.: February 28, 2007

Highway Emergency Relief: Reexamination Needed to Address Fiscal Imbalance and Long-term Sustainability. [GAO-07-245](#). Washington, D.C.: February 23, 2007.

Small Business Administration: Additional Steps Needed to Enhance Agency Preparedness for Future Disasters. [GAO-07-114](#). Washington, D.C.: February 14, 2007.

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Hurricanes Katrina and Rita: Federal Actions Could Enhance Preparedness of Certain State-Administered Federal Support Programs. [GAO-07-219](#). Washington, D.C.: February 7, 2007.

Homeland Security Grants: Observations on Process DHS Used to Allocate Funds to Selected Urban Areas. [GAO-07-381R](#). Washington, D.C.: February 7, 2007.

Homeland Security: Management and Programmatic Challenges Facing the Department of Homeland Security. [GAO-07-452T](#). Washington, D.C.: February 7, 2007.

Homeland Security: Applying Risk Management Principles to Guide Federal Investments. [GAO-07-386T](#). Washington, D.C.: February 7, 2007.

Hurricanes Katrina and Rita Disaster Relief: Prevention Is the Key to Minimizing Fraud, Waste, and Abuse in Recovery Efforts. [GAO-07-418T](#). Washington, D.C.: January 29, 2007

GAO, Reserve Forces: Actions needed to Identify National Guard Domestic Equipment Requirements and Readiness, [GAO-07-60](#) Washington, D.C.: January 26, 2007

Budget Issues: FEMA Needs Adequate Data, Plans, and Systems to Effectively Manage Resources for Day-to-Day Operations, [GAO-07-139](#). Washington, D.C.: January 19, 2007.

Transportation-Disadvantaged Populations: Actions Needed to Clarify Responsibilities and Increase Preparedness for Evacuations. [GAO-07-44](#). Washington, D.C.: December 22, 2006.

Suggested Areas for Oversight for the 110th Congress. [GAO-07-235R](#). Washington, D.C.: November 17, 2006.

Hurricanes Katrina and Rita: Continued Findings of Fraud, Waste, and Abuse. [GAO-07-252T](#). Washington, D.C.: December 6, 2006.

Capital Financing: Department Management Improvements Could Enhance Education's Loan Program for Historically Black Colleges and Universities. [GAO-07-64](#). Washington, D.C.: October 18, 2006.

Hurricanes Katrina and Rita: Unprecedented Challenges Exposed the Individuals and Households Program to Fraud and Abuse; Actions Needed to Reduce Such Problems in Future. [GAO-06-1013](#). Washington, D.C.: September 27, 2006.

Catastrophic Disasters: Enhanced Leadership, Capabilities, and Accountability Controls Will Improve the Effectiveness of the Nation's Preparedness, Response, and Recovery System. [GAO-06-618](#). Washington, D.C.: September 6, 2006.

Disaster Relief: Governmentwide Framework Needed to Collect and Consolidate Information to Report on Billions in Federal Funding for the 2005 Gulf Coast Hurricanes. [GAO-06-834](#). Washington, D.C.: September 6, 2006.

Hurricanes Katrina and Rita: Coordination between FEMA and the Red Cross Should Be Improved for the 2006 Hurricane Season. [GAO-06-712](#). Washington, D.C.: June 8, 2006.

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Hurricane Katrina: GAO's Preliminary Observations Regarding Preparedness, Response, and Recovery. [GAO-06-442T](#). Washington, D.C.: March 8, 2006.

Emergency Preparedness and Response: Some Issues and Challenges Associated with Major Emergency Incidents. [GAO-06-467T](#). Washington, D.C.: February 23, 2006.

Homeland Security: DHS' Efforts to Enhance First Responders' All-Hazards Capabilities Continue to Evolve. [GAO-05-652](#). Washington, D.C.: July 11, 2005.

Continuity of Operations: Agency Plans Have Improved, but Better Oversight Could Assist Agencies in Preparing for Emergencies.
[GAO-05-577](#). Washington, D.C.: April 28, 2005.

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